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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF MAILING I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on 6.12.03 Date Signature Typed or printed name of person signing certificate

REVOCATION OF POWERS OF ATTORNEY AND APPOINTMENT OF NEW ATTORNEYS AND/OR AGENTS AND CHANGE OF CORRESPONDENCE ADDRESS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Massachusetts Institute of Technology, a corporation duly organized under the laws of the Commonwealth of Massachusetts, together with The Penn State Research Foundation, a corporation organized and existing under the laws of the State of Pennsylvania, are the assignees of the entire right, title and interest in the patent applications/patents identified in Attachment A. Massachusetts Institute of Technology and The Penn State Research Foundation hereby appoints Carolyn S. Elmore, Registration No. 37,567 and Anne I. Craig, Registration Number 32,976, and/or agents associated with:

Elmore Craig, P.C. 209 Main Street No. Chelmsford, Massachusetts 01863

to prosecute the identified applications/patents and any divisions or continuations thereof and to conduct all business in the United States Patent and Trademark Office. All previously granted Powers of Attorney are hereby revoked.

Statements under 37 C.F.R. §3.73(b) with Attachment A are submitted herewith.

All correspondence should be sent to Elmore Craig, P.C., 209 Main Street, No. Chelmsford, Massachusetts 01863. Please direct all telephone calls to Carolyn S. Elmore, Esq. at (978) 273-3298.

Respectfully submitted,
Massachusetts Institute of Technology
By
Title:
Date
The Penn State Research Foundation
By: Ronald J. Huss
Title: Director Intellectual Property Office
Date: June 6, 2003

ATTACHMENT A

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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, and Robert S. Langer	Atty. Docket No	o.: 2846.1001-000
Application No.:	08/655,570	Group:	1615
Filed:	May 24, 1996	Examiner:	R. Bawa
Confirmation No.:	N/A		
Title:	Porous Particles for Pulmor	nary Drug Deliver	у
Patent No.:	N/A	Granted: N/A	
Assignee:	 Massachusetts Institute of Technology The Penn State Research Foundation 		
Recordation Date:	 July 26, 1996 March 5, 1998 	Reel: 1. 9013 2. 8875	Frames: 1. 0930-0934 2. 0876-0885

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.	: 2846.1001-001
Application No.:	09/194,068	Group:	1619
Filed:	May 23, 1997 (Int'l Filing Date) April 8, 1999 (371(c) Date)	Examiner:	R. Bawa
Confirmation No.:	2765		
Title:	Aerodynamically Light Pa	articles for Pulmona	ary Drug Delivery
Patent No.:	6,503,480	Granted: January	7, 2003
Assignee:	 Massachusetts Institut The Penn State Resear 	•	
Recordation Date:	 April 8, 1999 April 8, 1999 	Reel: 1. 9923 2. 9925	Frames: 1. 0384-0392 2. 0098-0103
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.:	2846.1001-007
Application No.:	09/569,153	Group:	1619
Filed:	May 11, 2000	Examiner:	R. Bawa
Confirmation No.:	N/A		
Title:	Porous Particles for Deep	Lung Delivery (As	Amended)
Patent No.:	6,254,854	Granted: July 3,	2001
Assignee:	 The Penn State Resear Massachusetts Institute 		
Recordation Date:	 October 30, 2000 July 26, 1996 	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875

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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.: 2846.1001-008
Application No.:	09/888,688	Group: 1616
Filed:	June 25, 2001	Examiner: R. Bawa
Confirmation No.:	2505	
Title:	Porous Particles Compris Amended)	ing Excipients For Deep Lung Delivery (As
Patent No.:	6,436,443B2	Granted: August 20, 2002
Assignee:	 The Penn State Resear Massachusetts Institute 	
Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 Frames: 1. 0319-0321 2. 8875 2. 0876-0875
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.: 2846.1001-009
Application No.:	09/891,131	Group: 1616
Filed:	June 25, 2001	Examiner: Mina Haghighatian
Confirmation No.:	2511	
Title:	Spray Dried Porous Partic	les For Deep Lung Delivery (As Amended)
	6 117 752	Granted: September 10, 2002
Patent No.:	6,447,753	Granted. Beptomoer 10, 2002
Patent No.: Assignee:	1. The Penn State Resear 2. Massachusetts Institute	ch Foundation

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No.:	2846.1001-010
Application No.:	09/888,781	Group:	1616
Filed:	June 25, 2001	Examiner:	Mina Haghighatian
Confirmation No.:	9010		
Title:	Amorphous Porous Partic	les For Deep Lung	Delivery (As Amended)
Patent No.:	6,447,752	Granted: Septen	nber 10, 2002
Assignee:	 The Penn State Resear Massachusetts Institute 		
Recordation Date:	 October 30, 2000 July 26, 1996 	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875
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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.:	2846.1001-028
Application No.:	10/090,418	Group:	1617
Filed:	March 1, 2002	Examiner:	n/a
Confirmation No.:	8180		
Title:	Aerodynamically Light Pa	articles For Pulmon	ary Drug Delivery
Patent No.:	N/A	Granted: N/A	
Assignee:	 The Penn State Research Massachusetts Institute 		
Recordation Date:	 April 8, 1999 April 8, 1999 	Reel: 1. 9925 2. 9923	Frame(s): 1. 0098-0102 2. 0384-0392

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No.:	2846.1001-031
Application No.:	10/209,654	Group:	1616
Filed:	July 30, 2002	Examiner:	Not assigned
Confirmation No.:	5830		
Title:	Porous Particles Compris	sing Excipients For	Deep Lung Delivery
Patent No.:	N/A	Granted: N/A	
Assignee:	 Massachusetts Institu The Penn State Resea 		
Recordation Date:	 March 5, 1998 October 30, 2000 	Reel: 1. 9013 2. 011211	Frames: 1. 0930-0934 2. 0319-0321
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No.:	2846.1002-000
Application No.:	08/739,308	Group:	1615
Filed:	October 29, 1996	Examiner:	Raj Bawa
Confirmation No.:	N/A		
Title:	Aerodynamically Light P	Particles For Pulmor	nary Drug Delivery
Patent No.:	5,874,064	Granted: Februa	ary 23, 1999
	Massachusetts Institut	te of Technology	
Assignee:	2. The Penn State Resea		

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No	.: 2846.1002-001
Application No.:	09/211,940	Group:	1615
Filed:	December 15, 1998	Examiner:	S. Howard
Confirmation No.:	N/A		
Title:	Aerodynamically Light Par	rticles For Pulmon	ary Drug Delivery
Patent No.:	6,136,295	Granted: Octob	per 24, 2000
Assignee:	 Massachusetts Institute The Penn State Researc 	0,	
Recordation Date:	1. January 17, 1997 2. January 17, 1997	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert s. Langer	Atty. Docket No.	.: 2846.1002-002
Application No.:	09/562,988	Group:	1615
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Filed:	May 1, 2000	Examiner:	S. Howard
Filed: Confirmation No.:	May 1, 2000 N/A	Examiner:	S. Howard
Confirmation No.:	N/A		ary Drug Delivery
Confirmation No.:	N/A Aerodynamically Light Par	ticles For Pulmon Granted: June 4, h Foundation	ary Drug Delivery

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket N	To.: 2846.1002-003
Application No.:	90/006,092	Group:	1616
Filed:	August 22, 2001	Examiner:	Mina Haghighatian
Confirmation No.:	7468		
Title:	Aerodynamically Light Par	ticles For Pulmor	nary Drug Delivery
Patent No.:	5,874,064C1	Certificate Issu	ed: December 10, 2002
Assignee:	 Massachusetts Institute of The Penn State Research 		
Recordation Date:	1. January 17, 1997 2. January 17, 1997	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket N	o.: 2846.1002-004
Application No.:	90/006,094	Group:	1616
Filed:	August 22, 2001	Examiner:	Mina Haghighatian
Confirmation No.:	7466		
Title:	Aerodynamically Light Part	icles For Pulmon	nary Drug Delivery
Patent No.:	6,136,295C1	Granted: Octo	ober 29, 2002
Assignee:	Massachusetts Institute c The Penn State Research		
Recordation Date:	1. January 17, 1997 2. January 17, 1997	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellazai Ben-Jebria, and Robert S. Langer	Atty. Docket No.	: 2846.1002-005
Application No.:	10/027,212	Group:	1615
Filed:	December 20, 2001	Examiner:	Sharon Lee Howard
Confirmation No.:	1760		
Title:	Aerodynamically Light Part	ticles For Pulmona	ry Drug Delivery
Patent No.:	N/A	Granted: N/A	
Assignee:	1. The Penn State Research 2. Massachusetts Institute		
Recordation Date:	 August 29, 2000 August 29, 2000 	Reel: 1. 011098 2. 011098	Frames: 1. 0746-0749 2. 0720-0724
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert L. Langer	Atty. Docket No.	: 2846.1003-000
Application No.:	08/784,421	Group:	1615
Filed:	January 16, 1997	Examiner:	G. Kishore
Confirmation No.:	N/A		
Title:	Particles Incorporating Surf	actants For Pulmon	nary Drug Delivery
Patent No.:	5,855,913	Granted: Janua	ry 5, 1999
Assignee:	 Massachusetts Institute of The Penn State Research 	0,	
Recordation Date:	1. March 20, 1997 2. March 20, 1997	Reel: 1. 8531 2. 8529	Frames: 1. 0042-0046 2. 0138-0140

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Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.	: 2846.1003-006
Application No.:	09/394,233	Group:	1616
Filed:	September 13, 1999	Examiner:	Mina Haghighatian
Confirmation No.:	3922		
Title:	Preparation of Novel Part	icles For Inhalation	1
Patent No.:	N/A	Granted: N/A	
Assignee:	 Massachusetts Institut The Penn State Resear 		
Recordation Date:	 January 3, 2000 January 3, 2000 	Reel: 1. 010504 2. 010504	Frames: 1. 0362-0367 2. 0329-0333
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert S. Langer	Atty. Docket No.	: 2846.1003-007
Application No.:	09/351,341	Group:	1615
Filed:	July 12, 1999	Examiner:	G. Kishore
Confirmation No.:	N/A		
			onem: Drug Deliviers
Title:	Particles Incorporating Su	iriacianis For Puim	onary Drug Denvery
Title: Patent No.:	RE37,053 E	Granted: Februa	
<u>.</u> ,		Granted: Februa	

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Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang and Donghao Chen	Atty. Docket No.	.: 2846.1003-008
Application No.:	08/971,791	Group:	1616
Filed:	November 17, 1997	Examiner:	K. Shelborne
Confirmation No.:	N/A	•	
Title:	Preparation of Particles For	Inhalation	
Patent No.:	5,985,309	Granted: Nove	mber 16, 1999
Assignee:	 Massachusetts Institute of The Penn State Research 		•
Recordation Date:	 December 22, 1997 December 22, 1997 	Reel: 1. 9108 2. 9108	Frames: 1. 0667-0671 2. 0695-0702
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Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.	: 2846.1003-009
Application No.:	09/752,106	Group:	1616
Filed:	December 29, 2000	Examiner:	Mina Haghighatian
Confirmation No.:	8230		
Title:	Particles For Inhalation Hav	ing Sustained Rel	ease Properties
Patent No.:	N/A	Granted: N/A	
Assignee:	 Massachusetts Institute of The Penn State Research 		
Recordation Date:	1. August 13, 2001 2. August 13, 2001	Reel: 1. 012078 2. 012078	Frames: 1. 0137-0140 2. 0156-0164

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-010
Application No.:	09/909,145	Group:	1619
Filed:	July 19, 2001	Examiner:	Not Assigned
Confirmation No.:	7807		
Title:	Particles For Inhalation F	Iaving Sustained Re	elease Properties
Patent No.:	N/A	Granted: N/A	
Assignee:	 Massachusetts Institut The Penn State Research 		
Recordation Date:	1. January 3, 2000 2. January 3, 2000	Reel: 1. 010504 2. 010504	Frames: 1. 0362-0367 2. 0329-0333
Applicants:	Rita Vanbever,	Atty. Docket No.:	2846.1003-011
	Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards		
Application No.:	Jue Wang, Donghao Chen, Robert S. Langer, and	Group:	N/A
Application No.:	Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards	Group: Examiner:	N/A N/A
	Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004	1	
Filed:	Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004 September 15, 1997	Examiner:	
Filed: Confirmation No.:	Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004 September 15, 1997 N/A	Examiner:	
Filed: Confirmation No.: Title:	Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004 September 15, 1997 N/A Preparation of Novel Part	Examiner:	

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Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-012
Application No.:	09/006,091	Group:	1616
Filed:	July 12, 1999	Examiner:	Mina Haghighatian
Confirmation No.:	7469		
Title:	Particles Incorporating Sur	s Incorporating Surfactants For Pulmonary Drug Delivery	
Patent No.:	RE37,053	Granted: Februar	ry 13, 2001
Assignee:	 Massachusetts Institute The Penn State Researc 	.	
Recordation Date:	 March 20, 1997 March 20, 1997 	Reel: 1. 8531 Frames: 1. 0042-0046 2. 8529 2. 0138-0140	
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	•	.: 2846.1003-013
Application No.:	90/006,093	Group:	1616
Filed:	August 22, 2001	Examiner:	Mina II alai alaation
		Diaminor.	Mina Haghighatian
Confirmation No.:	7467	District.	Mina Hagnighatian
Confirmation No.: Title:			iviina Hagnignatian
	7467	or Inhalation	mber 31, 2002
Title:	7467 Preparation Of Particles Fo	or Inhalation Granted: Decemon of Technology	

Applicants:	Rita Vanbever, Robert S. Langer, David A. Edwards, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-014
Application No.:	10/094,955	Group:	1616
Filed:	March 7, 2002	Examiner:	Mina Haghighatian
Confirmation No.:	7624		
Title:	Particles For Inhalation Hav	ving Sustained Rele	ase Properties
Patent No.:	N/A	Granted: N/A	
Assignee:	 The Penn State Research Massachusetts Institute of 		
Recordation Date:	1. November 7, 2002 2. November 7, 2002	Reel: 1. 013470 2. 013468	Frames: 1. 0864-0867 2. 0360-0368
Application No.:	10/420,071	Group:	Not assigned
Filed:	April 18, 2003	Examiner:	Not assigned
Confirmation No.:	N/A		
Title:	Particles for Inhalation Hav	ing Sustained Relea	ase Properties
Patent No.:	N/A	Granted: N/A	
Assignee:	Massachusetts Institute o The Penn State Research	•••	
Recordation Date:	1. August 13, 2001 2. August 13, 2001	Reel: 1. 012078 2. 012078	Frames: 1. 0156-0164 2. 0137-0140



STATEMENT UNDER 37 C.F.R. § 3.73(b)

	The l	Penn State Research Foundation, a corporation
		(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)
states th	at it is	
A.	[X]	the assignee, together with Massachusetts Institute of Technology, of the entire right, title and interest in the patent application(s)/patents identified in the attached Attachment A; or
B.	[]	an assignee together with [] of the entire right, title and interest in the patent application identified above.
The righ	nt, title an	d interest of the above-named assignee in the patent application identified above is established by virtue of:
A. [X]	An assig recorded attached	gnment from the inventor(s) of the patent application(s)/patents identified in Attachment A. The assignment we in the Patent and Trademark Office at the Reel(s) and Frame(s) indicated in Attachment A, or a copy thereof in the Patent and Trademark Office at the Reel(s) and Frame(s) indicated in Attachment A, or a copy thereof in the Patent and Trademark Office at the Reel(s) and Frame(s) indicated in Attachment A.
OR		
B.[]	A chain	of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:
	1.	From: To: The document was recorded in the Patent and Trademark Office at Reel , Frame, or a copy thereof is attached.
	2.	From: To: The document was recorded in the Patent and Trademark Office at Reel, or a copy thereof is attached.
	3.	From: To: The document was recorded in the Patent and Trademark Office at Reel , Frame, or a copy thereof is attached.
	[] Add	ditional documents in the chain of title are listed on a supplemental sheet.
The und	ersigned	(whose title is supplied below) is authorized to act on behalf of the assignee.
Date:	Ju	ne 6, 2003
Name:	Ro	nald J. Huss
Title:	Di	rector, Intellectual Property Office
Signatur	e:	add J. Hus

ATTACHMENT A

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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, and Robert S. Langer	Atty. Docket No	o.: 2846.1001-000
Application No.:	08/655,570	Group:	1615
Filed:	May 24, 1996	Examiner:	R. Bawa
Confirmation No.:	N/A		
Title:	Porous Particles for Pulmor	nary Drug Deliver	У
Patent No.:	N/A	Granted: N/A	
Assignee:	 Massachusetts Institute of The Penn State Research 		
Recordation Date:	1. July 26, 1996 2. March 5, 1998	Reel: 1. 9013 2. 8875	Frames: 1. 0930-0934 2. 0876-0885

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.:	: 2846.1001-001
Application No.:	09/194,068	Group:	1619
Filed:	May 23, 1997 (Int'l Filing Date) April 8, 1999 (371(c) Date)	Examiner:	R. Bawa
Confirmation No.:	2765		
Title:	Aerodynamically Light Pa	articles for Pulmona	ary Drug Delivery
Patent No.:	6,503,480	Granted: January	7, 2003
Assignee:	 Massachusetts Institute The Penn State Resear 		
Recordation Date:	 April 8, 1999 April 8, 1999 	Reel: 1. 9923 2. 9925	Frames: 1. 0384-0392 2. 0098-0103
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.:	2846.1001-007
Application No.:	09/569,153	Group:	1619
Filed:	May 11, 2000	Examiner:	R. Bawa
Confirmation No.:	N/A	1	
Title:	Porous Particles for Deep	Lung Delivery (As	Amended)
Patent No.:	6,254,854	Granted: July 3,	2001
Assignee:	 The Penn State Resear Massachusetts Institute 		
Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.: 2846.1001-008
Application No.:	09/888,688	Group: 1616
Filed:	June 25, 2001	Examiner: R. Bawa
Confirmation No.:	2505	
Title:	Porous Particles Comprising Excipients For Deep Lung Delivery (As Amended)	
Patent No.:	6,436,443B2	Granted: August 20, 2002
Assignee:	 The Penn State Research Foundation Massachusetts Institute of Technology 	
Recordation Date:	1. October 30, 2000 2. July 26, 1996	Reel: 1. 011211 Frames: 1. 0319-0321 2. 8875 2. 0876-0875
Annlicanta	David A Edwards	A4 D-1-4 N- 2046 1001 000
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Atty. Docket No.: 2846.1001-009
Application No.	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and	Group: 1616
	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	
Application No.	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria	Group: 1616
Application No. Filed:	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria 09/891,131 June 25, 2001	Group: 1616
Application No.: Filed: Confirmation No.:	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria 09/891,131 June 25, 2001	Group: 1616 Examiner: Mina Haghighatian
Application No.: Filed: Confirmation No.: Title:	Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer and Abdellaziz Ben-Jebria 09/891,131 June 25, 2001 2511 Spray Dried Porous Partic	Group: 1616 Examiner: Mina Haghighatian les For Deep Lung Delivery (As Amended) Granted: September 10, 2002 ch Foundation

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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No.:	2846.1001-010
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Assignee:	 The Penn State Resear Massachusetts Institute 		
Recordation Date:	 October 30, 2000 July 26, 1996 	Reel: 1. 011211 2. 8875	Frames: 1. 0319-0321 2. 0876-0875
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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria and Robert S. Langer	Atty. Docket No.:	2846.1001-028
Application No.:	10/090,418	Group:	1617
Filed:	March 1, 2002	Examiner:	n/a
Confirmation No.:	8180		
Title:	Aerodynamically Light Pa	articles For Pulmon	ary Drug Delivery
Patent No.:	N/A	Granted: N/A	
Assignee:	The Penn State Research Massachusetts Institute		
Recordation Date:	1. April 8, 1999 2. April 8, 1999	Reel: 1. 9925 2. 9923	Frame(s): 1. 0098-0102 2. 0384-0392

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Robert S. Langer, and Abdellaziz Ben-Jebria	Atty. Docket No.:	2846.1001-031
Application No.:	10/209,654	Group:	1616
Filed:	July 30, 2002	Examiner:	Not assigned
Confirmation No.:	5830		
Title:	Porous Particles Compri	sing Excipients For Deep Lung Delivery	
Patent No.:	N/A	Granted: N/A	
Assignee:	 Massachusetts Institu The Penn State Research 	0,	
Recordation Date:	1. March 5, 1998 2. October 30, 2000	Reel: 1. 9013 2. 011211	Frames: 1. 0930-0934 2. 0319-0321
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No.:	2846.1002-000
Application No.:	08/739,308	Group:	1615
Filed:	October 29, 1996	Examiner:	Raj Bawa
Confirmation No.:	N/A		
Title:	Aerodynamically Light P	Particles For Pulmon	nary Drug Delivery
Patent No.:	5,874,064	Granted: Februar	ry 23, 1999
1 410111 110	3,074,004		
Assignee:	Massachusetts Institut The Penn State Resea	te of Technology	

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No.	: 2846.1002-001
Application No.:	09/211,940	Group:	1615
Filed:	December 15, 1998	Examiner:	S. Howard
Confirmation No.:	N/A		·
Title:	Aerodynamically Light Pa	ynamically Light Particles For Pulmonary Drug Delivery	
Patent No.:	6,136,295	Granted: Octob	er 24, 2000
Assignee:	 Massachusetts Institute The Penn State Research 	. ,	
Recordation Date:	 January 17, 1997 January 17, 1997 	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918
Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert s. Langer	Atty. Docket No.	: 2846.1002-002
Application No.:	09/562,988	Group:	1615
Filed:	May 1, 2000	Examiner:	S. Howard
Confirmation No.:	N/A		
Title:	Aerodynamically Light Par	ticles For Pulmona	ary Drug Delivery
Patent No.:	6,399,102	Granted: June 4,	2002
Assignee:	 The Penn State Researc Massachusetts Institute 		
Recordation Date:	1. August 29, 2000 2. August 29, 2000	Reel: 1. 011098 2. 011098	Frames: 1. 0746-0749 2. 0720-0724

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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellaziz Ben-Jebria, and Robert S. Langer	Atty. Docket No	o.: 2846.1002-003
Application No.:	90/006,092	Group:	1616
Filed:	August 22, 2001	Examiner:	Mina Haghighatian
Confirmation No.:	7468		
Title:	Aerodynamically Light Part	ically Light Particles For Pulmonary Drug Delivery	
Patent No.:	5,874,064C1	Certificate Issue	d: December 10, 2002
Assignee:	 Massachusetts Institute of The Penn State Research 	<u> </u>	
Recordation Date:	 January 17, 1997 January 17, 1997 	Reel: 1. 8388 2. 8388	Frames: 1. 0959-0965 2. 0917-0918
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Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes,	Atty. Docket No	o.: 2846.1002-004
	Abdellaziz Ben-Jebria, and Robert S. Langer	1	
Application No.:	•	Group:	1616
Application No.: Filed:	and Robert S. Langer	Group: Examiner:	1616 Mina Haghighatian
	and Robert S. Langer 90/006,094	-	
Filed:	and Robert S. Langer 90/006,094 August 22, 2001	Examiner:	Mina Haghighatian
Filed: Confirmation No.:	and Robert S. Langer 90/006,094 August 22, 2001 7466	Examiner:	Mina Haghighatian
Filed: Confirmation No.: Title:	and Robert S. Langer 90/006,094 August 22, 2001 7466 Aerodynamically Light Part	Examiner: icles For Pulmona Granted: Octo	Mina Haghighatian

Applicants:	David A. Edwards, Giovanni Caponetti, Jeffrey S. Hrkach, Noah Lotan, Justin Hanes, Abdellazai Ben-Jebria, and Robert S. Langer	Atty. Docket No	.: 2846.1002-005
Application No.:	10/027,212	Group:	1615
Filed:	December 20, 2001	Examiner:	Sharon Lee Howard
Confirmation No.:	1760		
Title:	Aerodynamically Light Par	ticles For Pulmona	ry Drug Delivery
Patent No.:	N/A	Granted: N/A	
Assignee:	The Penn State Research Massachusetts Institute of		
Recordation Date:	 August 29, 2000 August 29, 2000 	Reel: 1. 011098 2. 011098	Frames: 1. 0746-0749 2. 0720-0724
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert L. Langer	Atty. Docket No.	.: 2846.1003-000
Application No.:	08/784,421	Group:	1615
Filed:	January 16, 1997	Examiner:	G. Kishore
Confirmation No.:	N/A		
Title:	Particles Incorporating Surf	factants For Pulmo	nary Drug Delivery
Patent No.:	5,855,913	Granted: Janua	ry 5, 1999
Assignee:	Massachusetts Institute of 2. The Penn State Research		
Recordation Date:	1. March 20, 1997 2. March 20, 1997	Reel: 1. 8531 2. 8529	Frames: 1. 0042-0046 2. 0138-0140

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Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-006
Application No.:	09/394,233	Group:	1616
Filed:	September 13, 1999	Examiner:	Mina Haghighatian
Confirmation No.:	3922		
Title:	Preparation of Novel Part	icles For Inhalation	
Patent No.:	N/A	Granted: N/A	
Assignee:		 Massachusetts Institute of Technology The Penn State Research Foundation 	
Recordation Date:	1. January 3, 2000 2. January 3, 2000	Reel: 1. 010504 2. 010504	Frames: 1. 0362-0367 2. 0329-0333
Applicants:	Justin Hanes, David A. Edwards, Carmen Evora, and Robert S. Langer	Atty. Docket No.:	2846.1003-007
	Langer	1	
Application No.:	09/351,341	Group:	1615
Application No.:		Group: Examiner:	1615 G. Kishore
	09/351,341		
Filed:	09/351,341 July 12, 1999	Examiner:	G. Kishore
Filed: Confirmation No.:	09/351,341 July 12, 1999 N/A	Examiner:	G. Kishore Donary Drug Delivery
Filed: Confirmation No.: Title:	09/351,341 July 12, 1999 N/A Particles Incorporating Su	Examiner: urfactants For Pulmo Granted: Februar e of Technology	G. Kishore Donary Drug Delivery

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang and Donghao Chen	Atty. Docket No.	: 2846.1003-008	
Application No.:	08/971,791	Group:	1616	
Filed:	November 17, 1997	Examiner:	K. Shelborne	
Confirmation No.:	N/A			
Title:	Preparation of Particles For Inhalation			
Patent No.:	5,985,309	Granted: Nove	mber 16, 1999	
Assignee:	Massachusetts Institute of Technology The Penn State Research Foundation			
Recordation Date:	 December 22, 1997 December 22, 1997 	Reel: 1. 9108 2. 9108	Frames: 1. 0667-0671 2. 0695-0702	
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.	: 2846.1003-009	
Application No.:	09/752,106	Group:	1616	
Filed:	December 29, 2000	Examiner:	Mina Haghighatian	
Confirmation No.:	8230			
Title:	Particles For Inhalation Having Sustained Release Properties			
Patent No.:	N/A	Granted: N/A		
Assignee:	Massachusetts Institute of Technology The Penn State Research Foundation			
Recordation Date:	1. August 13, 2001 2. August 13, 2001	Reel: 1. 012078 2. 012078	Frames: 1. 0137-0140 2. 0156-0164	

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-010	
Application No.:	09/909,145	Group:	1619	
Filed:	July 19, 2001	Examiner:	Not Assigned	
Confirmation No.:	7807			
Title:	Particles For Inhalation Having Sustained Release Properties			
Patent No.:	N/A	Granted: N/A		
Assignee:	 Massachusetts Institute of Technology The Penn State Research Foundation 			
Recordation Date:	1. January 3, 2000	Reel: 1. 010504 Frames: 1. 0362-0367 2. 010504 2. 0329-0333		
	2. January 3, 2000	2. 010504	2. 0329-0333	
		2. 010504	2. 0329-0333	
Applicants:		2. 010504 Atty. Docket No.:		
	Rita Vanbever, Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and			
Applicants:	Rita Vanbever, Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards	Atty. Docket No.:	2846.1003-011	
Applicants: Application No.:	Rita Vanbever, Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004	Atty. Docket No.:	2846.1003-011 N/A	
Applicants: Application No.: Filed:	Rita Vanbever, Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004 September 15, 1997	Atty. Docket No.: Group: Examiner:	2846.1003-011 N/A	
Applicants: Application No.: Filed: Confirmation No.:	Rita Vanbever, Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004 September 15, 1997 N/A	Atty. Docket No.: Group: Examiner:	2846.1003-011 N/A	
Applicants: Application No.: Filed: Confirmation No.: Title:	Rita Vanbever, Jeffrey Mintzes, Jue Wang, Donghao Chen, Robert S. Langer, and David A. Edwards 60/059,004 September 15, 1997 N/A Preparation of Novel Particles	Atty. Docket No.: Group: Examiner:	2846.1003-011 N/A	

Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.	: 2846.1003-012	
Application No.:	09/006,091	Group:	1616	
Filed:	July 12, 1999	Examiner:	Mina Haghighatian	
Confirmation No.:	7469			
Title:	Particles Incorporating Surfactants For Pulmonary Drug Delivery			
Patent No.:	RE37,053	Granted: February 13, 2001		
Assignee:	Massachusetts Institute of Technology The Penn State Research Foundation			
Recordation Date:	1. March 20, 1997 2. March 20, 1997	Reel: 1. 8531 2. 8529	Frames: 1. 0042-0046 2. 0138-0140	
neral a restaura	5.467公共 10.00 (A.C.) (A.C.)			
Applicants:	David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen		o.: 2846.1003-013	
Application No.:	90/006,093	Group:	1616	
Filed:	August 22, 2001	Examiner:	Mina Haghighatian	
Confirmation No.:	7467			
Title:	Preparation Of Particles For Inhalation			
Patent No.:	5,985,309 C1	Granted: Dece	ember 31, 2002	
Assignee:	Massachusetts Institute of Technology The Penn State Research Foundation			
Recordation Date:	 December 22, 1997 December 22, 1997 	Reel: 1. 9108 2. 9108	Frames: 1. 0667-0671 2. 0695-0702	

Applicants:	Rita Vanbever, Robert S. Langer, David A. Edwards, Jeffrey Mintzes, Jue Wang, and Donghao Chen	Atty. Docket No.:	2846.1003-014	
Application No.:	10/094,955	Group:	1616	
Filed:	March 7, 2002	Examiner:	Mina Haghighatian	
Confirmation No.:	7624			
Title:	Particles For Inhalation Having Sustained Release Properties			
Patent No.:	N/A	Granted: N/A		
Assignee:	 The Penn State Research Foundation Massachusetts Institute of Technology 			
Recordation Date:	1. November 7, 2002 2. November 7, 2002	Reel: 1. 013470 2. 013468	Frames: 1. 0864-0867 2. 0360-0368	
Application No.:	10/420,071	Group:	Not assigned	
Filed:	April 18, 2003	Examiner:	Not assigned	
Confirmation No.:	N/A			
Title:	Particles for Inhalation Having Sustained Release Properties			
Patent No.:	N/A	Granted: N/A		
Assignee:	Massachusetts Institute of Technology The Penn State Research Foundation			
Recordation Date:	1. August 13, 2001 2. August 13, 2001	Reel: 1. 012078 2. 012078	Frames: 1. 0156-0164 2. 0137-0140	